PROJECT OUTLINE

7 January 1955

PROPOSAL

In collaboration with the Air Force, to undertake the procurement of (a) 20 high altitude aircraft, (b) photo-reconnaissance equipment, and (c) electronic-reconnaissance equipment, and to prepare for and conduct extensive overflights of the Soviet Bloc in order to provide photographic and, secondarily, electronic intelligence. (Project AQUATONE)

SITUATION

The Lockheed Aircraft Corporation has proposed a very-high-altitude, jet-powered aircraft (designated CL-282). The Corporation is willing to take full responsibility for the design, mock-up, building, secret testing, and field maintenance of this unorthodox vehicle. It therefore appears entirely feasible for a CIA task force to undertake a covert overflight program based upon the CL-282, which will fly at 70,000 feet, well out of reach of present hussian interception and high enough to have a good chance of avoiding detection.

Photographic equipment can be developed which will enable extraordinary intelligence content to be obtained with pictures taken from
great altitudes. A single mission in clear weather can photograph
a strip of Russia 200 miles wide and 2200 miles long. A spotting camera
will take pictures in which the individuals in a city street can be
counted from 70,000 feet. Cloud cover will reduce completeness but
is not a serious obstacle because missions can be scheduled for good
weather and alternate routes for clear weather can be selected in flight.

Analogously, it is believed that automatic electronic intercept equipment (ELINT gear) can be developed which will provide from each overflight essential intelligence data as to locations, characteristics, capabilities, ranges and purposes of Soviet radar, homing identification and missile guidance systems. The possibility that otherwise inaccessible internal U.S.S.R. ultra-high-frequency links might be intercepted and recorded for communications intelligence analysis will also be explored.

The opportunity for safe overflight with the best equipment that can be built at this time will last only a year or so because the Seviets will develop radar and interceptors or guided missiles effective for the 70,000-foot ragion. The CL-282 can be developed and produced extraordinarily rapidly because it is based on a fighter aircraft already in production and uses an engine already tested. Moreover, experience with this aircraft will contribute significantly to the

TS #103219 Copy 2 of 4.

TODREPORT

-2-

ability of the United States to maintain a lead in the development of still higher altitude aircraft and thus to maintain a safe overflight capability. Therefore, time is of the essence if the existing opportunity is to be exploited and to be extended by continuing development.

OBJECTIVES

Although undertaken primarily to collect photographic and electronic intelligence, this operation will serve a variety of purposes of interest to various parts of the United States Government. The CL-282 will have major utility as a high altitude test platform. The research to be undertaken will include the testing of angine performance, pressurization, and the functioning of auxiliary equipment of all kinds as well as of electronic and photographic equipment at high altitudes. It will also include a study of the capabilities of personnel to perform missions requiring sustained flight at high altitudes and of the utility of equipment furnished to permit personnel to function more effectively. The aircraft will probably be useful also for high altitude air sampling. In the field of intelligence, the operation should contribute significantly to the attainment of the following objectives:

- a. Improve estimates of Soviet ability to deliver nuclear weapons and their capacity to produce them.
- b. Appraise Soviet guided missile development through photographs of testing ranges, etc.
- c. Assess the Seviet order of battle as an early warning indicator.
 - d. Provide adequate locations and analyses of Russian targets.
- e. Disclose new developments which might otherwise lead to technological surprise.
 - f. Appraise Soviet industrial and economic progress.

COST

The cost of procurement of materiel by this Agency under the program here proposed is expected to total approximately 50X1 virtually all of which will have to be obligated in FY 1955. It can be broken down as follows:

TS #103219 Copy 20f 4.

TOP SECRET

20 airframes, together with maintenance and testing equipment for the testing of the first one to be delivered

50X1

6 complete sets of photographic equipment, each met consisting of 3 configurations

12 sets of electronic search equipment to be used on photographic missions, together with 3 sets of automatic

FERRET equipment

Additional field maintenance equipment

TOTAL

The margin of error in these figures probably does not exceed and it is believed highly unlikely that the total material 50X1 costs could amount to more than The estimates assume that 50X1 the Air Force will furnish as a contribution to the project and without cost to the Agency (a) technical assistance and supervision, (b) all equipment regularly furnished as government furnished equipment, including especially 40 engines, and (c) transportation of material and personnel to test sites.

In addition to the above, certain non-material costs will be incurred in the course of preparation for the mounting of the operation. These will be primarily (a) administrative costs, including especially the cost of developing photo-intelligence and electronic-intelligence requirements, and of mission planning, (b) the cost of pilot recruitment and training, and (c) some part or all of the cost of testing initial items of equipment in the United States. It is expected that administrative costs can be largely absorbed in existing budgets. Pilot recruitment and training costs might reach a total of of which the major part would represent the cost of flight training which is provided by the Air Force and for which the Air Force is normally reimbursed. If the Air Force is prepared to absorb this item, the cost to the Agency of requirement and training should not exceed of which the major part will fall in FY 1955. The cost of the testing program has not yet been estimated. It will fall entirely in FY 1956.

50X1

50X1

The above figures contain no allowance for (a) any major costs that may be incurred in the acquisition or preparation of operational bases, (b) the cost of actually mounting the operation, including pay and subsistence of personnel, transportation of personnel and material to and between operational bases, and field maintenance, and (c) the cost of processing photographic film and electronic tape.

> TS /103219 Copy nof 4.

TOP SECRET

-4-

ORGANIZATION

In view of the clandestine character of the proposed operation, its nature, and the varied results expected to flow from it, it is proposed that this undertaking be organized as a joint GIA/Air Force project in which the CIA will undertake procurement as indicated above, with the assistance of the Air Force in all phases, and will conduct overflights as a clandestine operation. Within the CIA, the Special Assistant to the Director for Flanning and Coordination (SA/PC/DGI) will be in charge of the project, with Mr. Herbert Miller as Executive Officer. He will be supported by other officers temporarily assigned on a part-time or full-time basis as appropriate. Sub-projects will be organized forthwith as components of AGEATONE covering the performance of all the following functions:

1. Airframe procurement (Project CARFISH)

2. Procurement of photo-reconnaissance equipment (Project OCTROI)

3. Development and procurement of electronic equipment (Project AZAROLE)

4. Assembly and formulation of photo-intelligence requirements (Project EQUINE)

5. Assembly and formulation of electronic-intelligence requirements

(Project 50X1

6. Pilot recruitment and training (Project ZESTFUL)

At a later stage, other component projects will be organized as required.

RECOMMENDATION

It is recommended

- a. That the project be approved as outlined above.
- b. That the Special Assistant to the Director for Planning and Coordination be designated as the official in charge of the project and as Approving Officer, subject to the guidance of the Deputy Director of Central Intelligence and the Director of Central Intelligence.
- e. That the progurement of the airframes, photo-reconnaissance equipment and electronic equipment up to the amounts indicated above be authorized, subject to the following provisions:
 - (1) Promprement and contractual arrangements will be those normally employed by the Agency, with such examptions and restrictions designed to achieve maximum security as may be approved by the Approving Officer.
 - (2) All contractual and procurement documents, arrangements and commitments will be specifically approved in advance by the General Counsel.

18 \$103219 Copy 2 of 4.

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in excess of will be a Intelligence,	nts and documents which obligate funds pproved by the Director of Central 50X1
Air Force and from competent te	documentation will be obtained from the chnical advisors in support of procure- ations and descriptions of material
action necessary in preparation	ent and training of pilots and any other for the mounting of overflights be see incidental thereto initially up to 50X1
the manner and to the extent app the limitations as to quantity	ler be authorized to expend funds in proved by the Approving Officer within and procedure set forth above.
the necessary gathering and for	g Officer be authorized to arrange for mulation of intelligence requirements and a with the Air Force as appropriate.
g. That the approving closest possible security over	g Officer be directed to maintain the all phases of AQUATONE.
	STAT
	R. M. BISSELL, JR. Special Assistant to the Director for Planning and Coordination
CONCUR	STAT STAT
Deputy Director of Central	Deputy Director (Intelligence)
Intelligence	STAT
Degaty Director (Flans)	Deputy Director (Administration)
	APPROVED: STAT

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